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FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file us-10-633-008-2.res made by jdelaval on Tue 20 Jul 104 14:33:37-PST.

Query sequence being compared:US-10-633-008-2 (1-321)
Number of sequences searched:                        3
Number of scores above cutoff:                       3

Results of the initial comparison of US-10-633-008-2 (1-321) with:
  File : seqs-32-33-34.pep

  SCORE      0     36     71    107    143    178    214    250    285    321
  STDEV     -1      |      |      |      |      |      |      |      |      |
       0 -------------------------------------------------------------------
         -
    S    -
    E    -
    C    -
    N    -
    Q  10-                                                            *
    U    -
    S    -
    F    -
    O  10-
         -
    F    -
    S   5-
    E    -                                    *
    R    -
    B    -
    M  50-                       *
    U    -
    N    -
         -
   100-
```

```
Similarity matrix                  Unitary
Mismatch penalty                     1
Gap penalty                          1.00
Gap size penalty                     0.05
Cutoff score                         0
Randomization group                  0

                          PARAMETERS
                                        K-tuple                2
                                        Joining penalty       20
                                        Window size           32

                    SEARCH STATISTICS

Scores:         Mean        Median      Standard Deviation
                211          109         106.61

Times:      CPU                      Total Elapsed
            00:00:00.00              00:00:00.00

Number of residues:            984
Number of sequences searched:    3
Number of scores above cutoff:   3

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% similar sequence to the query sequence was found:

Sequence Name    Description                    Init.  Opt.
                                                Score  Score  Sig.  Frame
```

1. US-10-633-008-32 Sequence 32, Application 399 321 1.03 0

The list of other best scores is:

Sequence Name	Description	Length	Init. Score	Opt. Score	Sig.	Frame
1. US-10-633-008-32	Sequence 32, Application	399	321	321	1.03	0
2. US-10-633-008-33	Sequence 33, Application	305	206	161	-0.05	0
3. US-10-633-008-34	Sequence 34, Application	280	108	128	-0.97	0

1. US-10-633-008-2 (1-321)
   US-10-633-008-32 Sequence 32, Application US/10633008

```
Sequence 32, Application US/10633008
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/01000P1
CURRENT APPLICATION NUMBER: US/10/633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SEQ ID NO 32
  LENGTH: 399
  TYPE: PRT
  ORGANISM: Homo sapiens

Initial Score   =  321   Optimized Score =  321   Significance =  1.03
Residue Identity =  100%  Matches         =  321   Mismatches   =  0
Gaps             =    0   Conservative Substitutions =  0
```

```
X               10        20        30        40        50        60        70
MGILLGLLLLGHLTVDDIYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDS
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
MGILLGLLLLGHLTVDDIYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDS
X               10        20        30        40        50        60        70

                80        90       100       110       120       130       140
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPT
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSKPT
                80        90       100       110       120       130       140

               150       160       170       180       190       200       210
VTTGSGYGFTVPQGMRISLQCQARGSPPISYIWYKQQTNNQEPIKVATLSTLLFKPAVIADSGSYFCTAKGQ
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
VTTGSGYGFTVPQGMRISLQCQARGSPPISYIWYKQQTNNQEPIKVATLSTLLFKPAVIADSGSYFCTAKGQ
               150       160       170       180       190       200       210

               220       230       240       250       260       270       280
VGSEQHSDIVKFVVKDSSKLLKTKEAPTTMTYPLKATSVKQSWDWTTDMDGYLGETSAGPGKSLPVFAII
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
VGSEQHSDIVKFVVKDSSKLLKTKEAPTTMTYPLKATSVKQSWDWTTDMDGYLGETSAGPGKSLPVFAII
               220       230       240       250       260       270       280
```

```
        220       230       240       250       260       270       280
VGSEQHSDIVKFVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTTDMDGYLGETSAGPGKSLPVFAII
                                          X
        290       300       310
LIISLCCMVVFTMAYIMLCRKTSQQEHVYEAAR
LIISLCCMVVFTMAYIMLCRKTSQQEHVYEAARDSGETMRVAIFASGCSSDEPTSQNIGNNYSDE
        290       300       310       320       330       340       350       360

PCIGQEYQIIAQINGNYARLLDTVPDYEFLATEGKSVC
        370       380       390
```

2.

US-10-633-008-2 (1-321)
US-10-633-008-33 Sequence 33, Application US/10633008

Sequence 33, Application US/10633008
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/01000P1
CURRENT APPLICATION NUMBER: US/10/633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SEQ ID NO 33
TYPE: PRT
LENGTH: 305
ORGANISM: Homo sapiens
SOFTWARE: FastSEQ for Windows Version 4.0

```
Initial Score   =   206   Optimized Score   =   161   Significance   =  -0.05
Residue Identity =  51%   Matches           =   172   Mismatches     =   117
Gaps             =   43    Conservative Substitutions =   0
```

```
        10        20        30        40        50        60        70
X
MGILLGLLLLGHLTVDTYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDS
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
MGILLGLLLLGHLTVDTYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDS
X
        10        20        30        40        50        60        70

        80        90        100       110       120       130       140
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKLSVSK--
|||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQKHS-SKLL
        80        90        100       110       120       130       140

        150       160       170       180       190       200
----PPI-VTTGSGYGPTVPQ------GMRISLQCCQARGSPPISIYWYKQQTNNQEPIKVATLLSTLLFKPA
||||         ||         ||||||||||||||||||||||||||
KIKTEAPTTMTYPLKATSTVKQSWDWTTDMDGYLGETSAG-PGKS-----LPVFAIILIISLCCMV
        150       160       170       180       190       200

        210       220       230       240       250       260       270
VIADSGSYPFCTAKGQVGSEQHSDIVKFVVKDSSKLLKTKTEAPTTMTYPLKATSTVKQSWDWTTDMDGYLG-
```

3.

US-10-633-008-2 (1-321)
US-10-633-008-34 Sequence 34, Application US/10633008

Sequence 34, Application US/10633008
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Fong, Sherman
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Napier, Mary A.
APPLICANT: Tumas, Daniel
APPLICANT: Van Lookren, Menno
APPLICANT: Wood, William I.
TITLE OF INVENTION: USE OF A33 ANTIGENS AND JAM-IT
FILE REFERENCE: 39766/01000P1
CURRENT APPLICATION NUMBER: US/10/633,008
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: US/10/265,542
PRIOR FILING DATE: 2002-10-03
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: PCT/US00/14042
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: US/09/254,465
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
NUMBER OF SEQ ID NOS: 36
SEQ ID NO 34
TYPE: PRT
LENGTH: 280
ORGANISM: Mus musculus
SOFTWARE: FastSEQ for Windows Version 4.0

```
Initial Score   =   108   Optimized Score   =   128   Significance   =  -0.97
Residue Identity =  44%   Matches           =   137   Mismatches     =   129
Gaps             =   42    Conservative Substitutions =   0
```

```
        210       220       230       240       250       260
VFTMAYIMLCRKTSQ---------QEHVYEAARAHAREANDSGETM---RVAIFASGCSSDEPT---SQNLGN
                              |||      |||||||||||        ||
ETSAGPGKSLPVFAIILIISLCCMVVFTMAYIMLCRKTSQQEHVYEAAR
        280       290       300       310   X 320

        270       280       290       300
NYSDEPCIGQEYQIIAQINGNYARLLDTVPDYEFLATEGKSVC
        270       280       290       300    X
```

```
        10        20        30        40        50        60        70
X
MGILLGLLLLGHLTVDTYGRPILEVPESVTGPWKGDVNLPCTYDPLQGYTQVLVKWLVQRGSDPVTIFLRDS
||||||||||||||||||         |         |||||||||||||||||||||||||||
MEISSGLLFLGHLIVLTYGHPLTKTPPESVTGPWKGDVKIQCTYDPPLRGYRQVLVKWLVRHGSDSVTIFLRDS
X
        10        20        30        40        50        60        70

        80        90        100       110       120       130
SGDHIQQAKYQGRLHVSHKVPGDVSLQLSTLEMDDRSHYTCEVTWQTPDGNQVVRDKITELRVQK------
                              ||||||||||||||||          |||||
TGDHIQQAKYRGRLKVSHKVPGDVSLQINTLQMDDRNHYTCEVTWQTPDGNQVIRDKIIELRVRKYNPPRIN
        80        90        100       110       120       130       140

        140       150       160       170       180       190       200
-------LSVSKFIVTTGSGYGFTVPQGMRISLQCCQARGSPPISIYWYKQQTNNQEPIKVATLLSTLLFKPAVI
               |         ||||||||||||||||||||
TEAPTTLHSSLEATTIMSSTSDIITNG-TGKLEETIAGSGRNLPIFAIIFIISLCCIVAVTIPYILF------
        150       160       170       180       190       200       210

        210       220       230       240       250       260       270
ADSGSYFCTAKGQVGSEQHSDIVKFVVKDSSKLLKTKTEAPTTMTYPLKAT-STVKQSWDWTTDMDGYLGET
                                                  ||||
-----RCRTFQEYVVGVS--RVFARKTS-------NSEETTRVT--TIATDEPDSQALISDYSDDPCLSQE
```

```
              280        290    X   300       310       320
              SAGPGKSLPVPAILLIISLCCMVVFTWAYIMLCRKTSQQEHVYEAAR
              YQITIRS-------TMSIPAC
              270                 280
```

            220   230   240   250   260